



NICHOLAS CHORNAY—THE TECH

IN YOUR COMMUNITY

Meet Anantha Chandrakasan

From Berkeley researcher to EECS department head

By Paul Woods

STAFF WRITER

They told him that it wouldn't work. "When we went to conferences, they did not believe that complex digital circuits could reliably operate at low voltages."

Then a graduate student at the University of Cali-

fornia, Berkeley, Professor Anantha P. Chandrakasan wasn't entirely sure it would work either.

In the end, though, his low-power chip designs did work, and one year later, Chandrakasan gave one of the most influential talks in the history of the International Solid-State Circuits

Conference. So many people attended that some couldn't even get close enough to hear, so the organizers asked him to give the talk a second time — a first for the conference.

A couple of decades later, Chandrakasan holds the chair for the International Solid-State Circuits Con-

ference, held the directorship of MIT's Microsystems Technology Labs, and has been recently appointed as the head of MIT's Department of Electrical Engineering and Computer Science (EECS).

But how did it all start?

Chandrakasan, Page 6

Tech startups take to MIT for Bootcamp

Hi-tech startup founders seek to advise and inspire

By Deborah Chen

ASSOCIATE NEWS EDITOR

Hundreds of people from the MIT and Boston community flocked to Kresge Auditorium last Saturday as the founders of Dropbox, Quora, Foursquare and seven other tech companies took the stage at the 3rd annual Startup Bootcamp at MIT. The event featured a marathon of talks and presentations from well-known figures in the high-tech startup industry.

Michael V. Grinich '11, who founded and organized the first MIT Startup Bootcamp, was dissatisfied with the entrepreneurship opportunities available at MIT when he was a sophomore. "Three to five years ago, when I first started thinking about this event, there was this frustration that MIT wasn't really having the same level of dialogue about startups as some other universities," Grinich said.

Grinich said that he believes the event is an important part of the startup ecosystem at the Institute. "I wanted to throw an event that would bring lots of different people together and get people talking about startups," he added.

Over the past few years, Grinich said, the event has already inspired some attendees to form their own companies. "By my last count, a couple dozen people have emailed me saying they've started their own companies, just by meeting other people at the event."

"Startup Bootcamp is almost like a meta-startup in that sense. I mean, if 9 out of 10 startups fail, and 300 companies are created, then 30 of them will be success-

Startup Bootcamp, Page 9

IN SHORT

The MIT Investment Management Company reported 17.9 percent returns on MIT's endowment in the 2011 fiscal year. The endowment value climbed from \$8.5 billion to \$9.9 billion. In 2010, the endowment had gained only 10.2 percent.

Course 6 professor Tomas A. Palacios has received the Presidential Early Career Award for Scientists and Engineers. The award is the "highest honor" that the U.S. government gives to up-and-coming independent researchers, according to the White House. In an email to *The Tech*, Palacios said it was a "tremendous honor" to receive the award and thanked his students, colleagues, and sponsors who helped "push the limits of electronics."

The Ig Informal Lectures are happening this weekend at 1 p.m. in 26-100. See the Ig Nobel Prize winners explain their achievements!

The fall ASA general body meeting is tomorrow at 5:30 p.m. in 54-100. Food and sign-in begins at 5 p.m. A representative from each student group is required to be present.

Fall Festival tickets are now available for presale online at <http://web.mit.edu/fall>. John Oliver from "The Daily Show" will be performing at MIT on October 28 at 10 p.m. in Kresge.

Christopher A. Schuh has been named the new head of Course 3.

Send news information and tips to news@tech.mit.edu.

Novartis & Pfizer to move near campus

New construction to transform area in Central and Kendall Squares

By Adisa Kruayatidee

Two pharmaceutical giants, Novartis and Pfizer, are getting closer to realizing their new complexes neighboring the MIT campus. Both sites will primarily house research facilities.

Novartis' new campus will occupy the Analog Devices lot and building near the intersection of Massachusetts Avenue and Albany Street, and Pfizer will be at 610 Main Street — the

lot adjacent to the Shire building. Both properties are leased from the MIT Investment Management Company. Novartis currently runs a research complex across Mass Ave. from their new site.

Last June, Novartis received a unanimous approval from the city council for zoning changes it had been planning through the spring. Those changes included

Pharma, Page 10



SOURCE: WWW.SIXTENMIT.COM

Rendering of the street-level retail space at 610 Main St., which will be predominantly occupied by Pfizer.



COURTESY OF DOMINICK REUTER/MIT

Chile president visits MIT, tours Media Lab

Chilean President Sebastián Piñera visited the MIT Media Lab last Friday to give a speech in front of an audience consisting primarily of Chilean students in the Boston area. Piñera encouraged his audience members to return to their native country, Chile, after completing their education. Piñera addressed his audience in Spanish.

"Chile needs your education, the skills you've ac-

quired here," Piñera said, according to the MIT News Office. "That's what will make a difference in our economy going forward."

Piñera admitted that he had a "deep but healthy jealousy" for the students who had the opportunity to study "at one of the best universities in the world."

Piñera had met with MIT President Susan J. Hockfield prior to his speech, followed

by a tour of the Media Lab led by and Alexander Simoes G and Assistant Professor of Media Arts and Sciences César A. Hidalgo. Hidalgo and Simoes demonstrated their work with the Economic Complexity Observatory, a collaborative project meant to develop tools that can help visualize large amounts of data for macroeconomic decision making.

—Derek Chang

WARREN'S VIRAL FOLLY

Elizabeth Warren builds up a strawman, tears it down, and calls it a day. **OPINION, p. 4**

BAD ADVICE CAN SOUND GOOD

Take my advice: Watch out for bad advice. **CAMPUS LIFE, p. 5**

STAR MARKET NIGHTMARE

Harrowing tales from a first-time grocery shopper. **CAMPUS LIFE, p. 5**



TIME AS WE KNOW IT IS NOW BROKEN

The vast implications of the recent faster-than-light neutrinos finding. **FUN, p. 8**

HOW FOOTBALL CAN IMPROVE

The Engineers should diversify their strategy. **SPORTS, p. 12**

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Fighters enter Gadhafi stronghold city as toll rises

By Kareem Fahim
THE NEW YORK TIMES

TRIPOLI, Libya — Fighters battling Moammar Gadhafi’s loyalists Monday entered the coastal city of Sirte from the east as residents fleeing the besieged city, one of the loyalists’ few remaining strongholds, warned of an escalating toll from the fighting. The foray by the former rebels, backed by a heavy bombardment from NATO warplanes, brought them to a traffic circle more than a mile from the city center, Reuters reported. In recent days, the rebels have struck deep into the city from the west, only to be beaten back by heavy resistance from Gadhafi fighters ensconced in the city.

As the anti-Gadhafi forces have

struggled to unify Libya politically, the continuing, pitched battle for Sirte, one of only two remaining Gadhafi strongholds, has become one of their most urgent concerns. To declare an end to the conflict, they have suggested that they need to capture the city. They have struggled to do so, facing resistance from both Gadhafi troops and, residents say, from citizen volunteers who either fear the former rebels or remain loyal to the colonel.

And the frustrated response by the provisional government fighters — including pounding the city with heavy weapons — has raised fears of a mounting civilian toll. The International Committee for the Red Cross and other aid agencies have warned that food and medical supplies are

running short and have told the combatants to avoid civilian casualties.

A doctor interviewed by The Associated Press, Eman Mohammed, said that many of the recent wounds at the city’s central Ibn Sina Hospital seemed to have been caused by shelling by the former rebels. There was no oxygen in the operating rooms, she said, and few staff members to treat patients.

Moussa Ibrahim, a spokesman for Gadhafi, told Reuters on Monday that he had been moving in and out of the besieged city, despite anti-Gadhafi fighters surrounding it on three sides. As for Gadhafi, Ibrahim declined to comment on his whereabouts, telling Reuters that the deposed leader was “very happy that he is doing his part in this great saga of the resistance.”

Wangari Maathai, Nobel Peace Prize laureate, dies at 71

By Jeffrey Gettleman
THE NEW YORK TIMES

NAIROBI, Kenya — Dr. Wangari Maathai, the Kenyan environmentalist who began a movement to reforest her country by paying poor women a few shillings to plant trees and who went on to become the first African woman to win a Nobel Peace Prize, died here Sunday. She was 71.

The cause was cancer, said her organization, the Green Belt Movement. Kenyan news outlets said she had been treated for ovarian cancer

in the past year and that she had been in a hospital for at least a week before she died.

Maathai, one of the most widely respected women on the continent, played many roles — environmentalist, feminist, politician, professor, rabble-rouser, human rights advocate and head of the Green Belt Movement, which she founded in 1977. Its mission was to plant trees across Kenya to fight erosion and to create firewood for fuel and jobs for women.

Maathai was as comfortable in the gritty streets of Nairobi’s slums

or the muddy hillsides of central Kenya as she was hobnobbing with heads of state. She won the Peace Prize in 2004 for what the Nobel committee called “her contribution to sustainable development, democracy and peace.” It was a moment of immense pride in Kenya and across Africa.

Her Green Belt Movement has planted more than 30 million trees in Africa and has helped nearly 900,000 women, according to the United Nations, while inspiring similar efforts in other African countries.

Lawyer for hikers freed by Iran denies abuse claims

The Iranian lawyer for the two U.S. hikers released on bail and repatriated last week after a two-year odyssey through Iran’s penal system appeared to distance himself from his clients in an interview published Monday, calling their accusations of mistreatment baseless and politically motivated.

The comments by the lawyer, Masoud Shafiei, made in an interview with Iran’s Fars news agency, came a day after a news conference held in New York by the Americans, Joshua F. Fattal and Shane M. Bauer, both 29. In their first comments on U.S. soil, they provided new details about their captivity in Iran on spying and trespass charges before their release on \$500,000 bail each, granted Sept. 21 by Iran’s judiciary.

The Americans said their captors had regularly blindfolded them and withheld mail sent by their families. Sometimes, they said, they heard the screams of other inmates at Tehran’s Evin Prison, where they spent 781 days.

In the Fars news agency interview, Shafiei cast doubt on the Americans’ accusations. If they had been mistreated, Shafiei was quoted as saying, they could have raised a complaint during their court hearings.

“If my clients contact me, as an Iranian national, I will definitely inform them of my protest at their baseless claims,” the lawyer was quoted as saying. “Why have they made such allegations when their problem has been resolved and they have left the country?”

Reached by telephone after Fars published the interview, Shafiei said some of his comments had been misconstrued. He said he was never able to consult with his clients in private and therefore did not know about their claims of mistreatment. Nonetheless, Shafiei did not deny the Fars account or say he would seek a retraction.

—Rick Gladstone, The New York Times

Six suspects charged in British terrorism plot

LONDON — Six men have been charged with planning an act of terrorism in Britain, as part of a plot that included training in Pakistan, preparing for suicide bombings and constructing an explosive device, the police said Monday.

The men, ages 25-32, are all from Birmingham, Britain’s second-largest city. Four were charged with “preparing for an act of terrorism in the U.K.,” and the other two were charged with failing to disclose information. A seventh man was being questioned, the West Midlands police force said in a statement.

The men were arrested last week in a raid led by the counterterrorism unit of Britain’s West Midlands police.

The police have given no details of the alleged plot, but a police statement said the arrests were part of a “major operation” prompted by intelligence work, a formulation that has often been used to describe a lengthy period of surveillance by undercover units and Britain’s secret intelligence and security agencies, MI5 and MI6.

—John F. Burns and Ravi Somaiya, The New York Times

WORLD&NATION WORLD&NATION WORLD&NA

Sophomores: Jump-start your career! UPOP

I think of UPOP as
a career success
accelerator.

John Chisholm '75 | MIT CDC

UPOP is one of the most
extraordinary programs
MIT has to offer to its
students, and plays a
vital role in launching
their professional careers.
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MIT students apart.

Saad Zaheer '09 | Course 8

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Tuesday	Sept 27	7:00 PM	4-270
Wednesday	Sept 28	5:30 PM	4-370

617.253.0077 | 12-193 | upop@mit.edu | sign up: upop.mit.edu/events

Department head is busy, but still has time for students, faculty

Chandrakasan's interest in circuits was sparked in his college years. When Chandrakasan was a senior at Berkeley, he began working with Professor Robert Brodersen, who became his thesis advisor.

The project would later be known as the "InfoPad," and would grow to incorporate over 50 students, faculty, and employees from several departments and companies before coming to an end in the mid-'90s.

Chandrakasan and Cheng spent that summer trying to find a solution. In the end, they found one: parallelism — run computations on two processors at the same time to conserve energy. When the team tested their designs and they worked, Chandrakasan knew it was something huge. He co-wrote “Low-Power CMOS Digital Design,” submit-

NICHOLAS CHORNAY—THE TECH

education, graduate education, and different subgroups and tasks; getting to know and supporting faculty; preparing cases for faculty promotions; and interfacing with research labs, just to list a few.

The professor even goes as far as meeting students during his morning workouts at the Z Center around 7:45. "Actually, sometimes I invite some of my grad students. ... We've had meetings to discuss research ideas, so if students want to find me there, that'd be a great way."

There is definitely more to Chandrakasan's life than MIT. Chandrakasan has three children — two girls, five and eight years old, and a son who is in high school. Outside of MIT, Chandrakasan does everything from taking them to Red Sox games to watching Khan Academy videos with them.

What's the newly-minted department head's best advice for current students? "Really be passionate about something, try to take lots of classes, and try to use every opportunity you can at MIT. There are so many different things that you can do, but try to pick the ones that you get most excited by and follow through. And have an open mind in terms of what kind of careers you could have."

PHOTO COURTESY OF ANANTHA CHANDRAKASAN

The InfoPad was an idea conceptualized in the early 90s. Chandrakasan and another graduate student worked on the technology needed for the InfoPad to perform certain processes without draining too much battery. They found their solution in parallelism, and as a result, wrote a paper that has been the second-most cited paper in IEEE's *Journal of Solid State Circuits*.

ting it to the IEEE's *Journal of Solid-State Circuits*. The paper became the second-most cited paper in the journal's history.

After getting his PhD in 1994, Chandrakasan left Berkeley to join MIT as a professor. He became the director of MIT's Microsystems Technology Labs in 2006, and in July he replaced Chancellor Eric Grimson PhD '80 as head of MIT's Department of Electrical Engineering and Computer Science.

Heading an academic department is no small task, let alone heading MIT's largest. "The thing about being a department head is that you have to touch pretty much every aspect of the department," said Chandrakasan. That means overseeing undergraduate

And on top of that, Chandrakasan still heads his research group, Terminal 2020, which is trying to answer the question, “What is the iPad of the future?” Plus, Chandrakasan continues to be an advisor for undergraduates.

"Any hobbies?" I asked him.

"MIT," he responded jokingly.

As the new EECS head, Chandrakasan wants to get one point across: he really wants to connect with students. "Any time a student wants to meet with me, I'm completely open," he said.

"We want to have students — undergrads and grads — really work with us, provide suggestions, be able to walk into the department head's office or go to the gym and suggest ideas. I would be very excited about students

Introducing the LPI

Think the price changed on one of your favorite items at LaVerde's? Think the price changed on several items? Wondering how the prices at LaVerde's are changing over time and if these price changes are fair?

The Tech is compiling a metric we call the LaVerde's Price Index (LPI). We add together the prices of 23 specific, diverse

products that we feel are typical purchases for members of the MIT community, and we plot how that total price changes monthly. Each month, we will also compare the LPI to the Consumer Price Index (Northeast urban area) as a measure of fairness.

The CPI has been scaled so that the starting point in July is the same as the cumulative price of the 23 select items from LaVerde's. The CPI for September has not been released yet.

A line graph comparing the Consumer Price Index (CPI) and LaVerde's Price Index from July to September. The Y-axis represents the index value, ranging from 90 to 100. The X-axis shows the months: July, August, and September. The CPI is represented by a red line with square markers, and LaVerde's Price Index is represented by a yellow line with square markers. Data points are labeled with their respective values.

Month	Consumer Price Index	LaVerde's Price Index
July	93.9	93.9
August	94.2	94.7
September	94.7	94.7

BANNED BOOKS WEEK
Sept. 24 – Oct. 1

CHALLENGED or BANNED in 2010-2011

Alexie, Sherman.

The Absolutely True Diary of a Part Time Indian

Anderson, Laurie Halse. *Speak*

Baker, Larry. *The Flamingo Rising*

Baskin, Julia; Lindsey Newman, Sophie Pollitt-Cohen, and Courtney Toombs.

The Notebook Girls: Four Friends, One Diary, Real Life

Brashares, Ann.

Forever in Blue, the Fourth Summer of the Sisterhood

Burroughs, Augusten. *Running with Scissors*

Butler, Dori Hillestad. *My Mom's Having a Baby*

Cast, P. C., and Kristin Cast. *Betrayed*

Chbosky, Stephen. *The Perks of Being a Wallflower*
Chopin, Kate. *The Awakening*
Collins, Suzanne. *The Hunger Games*.
Crutcher, Chris. *Staying Fat for Sarah Byrnes*
Ehrenreich, Barbara.
 Nickel and Dimed: On (Not) Getting by in America
Foer, Jonathan Safran.
 Extremely Loud and Incredibly Close.
Frank, Anne. *Anne Frank: The Diary of a Young Girl*.
Gruen, Sara. *Water for Elephants*.
Guterson, David. *Snow Falling on Cedars*.
Haddon, Mark. *The Curious Incident of the Dog in the Night-time*

Hahn, Mary Downing. *The Dead Man in Indian Creek*
Halpern, Julie. *Get Well Son*
Horowitz, Anthony. *Snakehead*
Huxley, Aldous. *Brave New World*
Kehret, Peg. *Stolen Children*
Lelveld, Joseph. *Great Soul: Mahatma Gandhi and His Struggle With India* (Knopf)
Mackler, Carolyn. *Vegan Virgin Valentine*
Madaras, Lady, and Dane Saavedra. *What's Happening to My Body? Book for Boys: A Growing-up Guide for Parents & Sons*

Mathabane, Mark. *Kaffir Boy: The True Story of a Black
Youth's Coming of Age in Apartheid South Africa*
McKissack, Fredrick. Jr. *Shooting Star*.
Monette, Paul. *Writers' Voice: Selected from Borrowed Time:
An AIDS Memoir*.
Moore, Patrick. *Tweaked: A Crystal Meth Memoir*
Morrison, Toni. *Song of Solomon*
Myracle, Lauren. *ttul*
Ockler, Sarah. *Twenty Boy Summer*
Plum-Ucci, Carol. *The Body of Christopher Creed*
Salinger, J. D. *The Catcher in the Rye*
Sapphire (Ramona Lofton). *Push*

Semencic, Carl. *Pit Bulls and Tenacious Guard Dogs*
Thomasson Grant & Howell Shaffer, Paul.
We'll Be Here for the Rest of Our Lives
Sixx, Nikki. *The Heroin Diaries*
A Year in the Life of a Shattered Rock Star
Smith, Jeff. *Bone*
Sones, Sonya.
One of Those Hideous Books Where the Mother I
Sonnie, Amy, ed. *Revolutionary Voices*:
A Multicultural Queer Youth Anthology
Walker, Margaret. *Jubilee*
Writers Corps. *Paint Me Like I Am: Teen Poems*

This bibliography represents books challenged, restricted, removed, or banned in 2010 and 2011 as reported in the Newsletter on Intellectual Freedom from May 2010–May 2011.

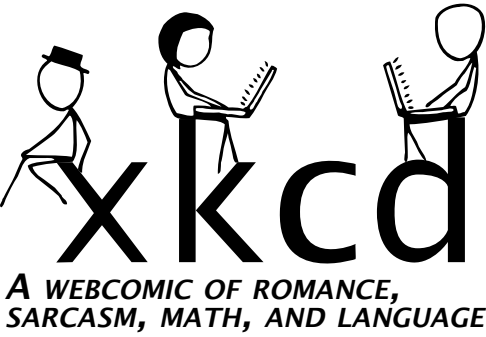


by Jerry Holkins
and Mike Krahulik

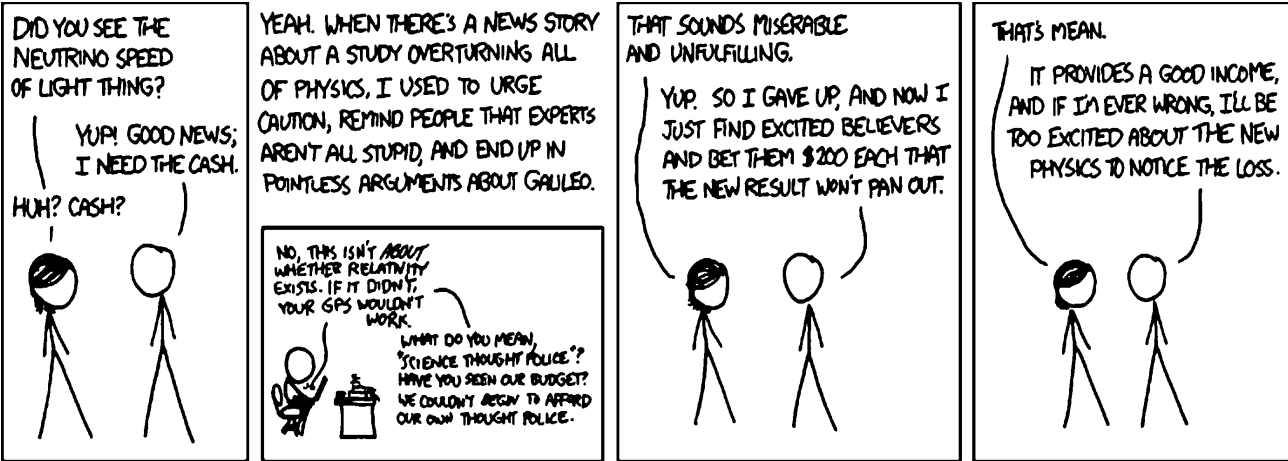
You Got Your Bas In My Relief



[955] Neutrinos



by Randall Munroe



I can't speak to the paper's scientific merits, but it's really cool how on page 10 you can see that their reference GPS beacon is sensitive enough to pick up continental drift under the detector (interrupted halfway through by an earthquake)

Crossword Puzzle

Solution, page 11v

ACROSS

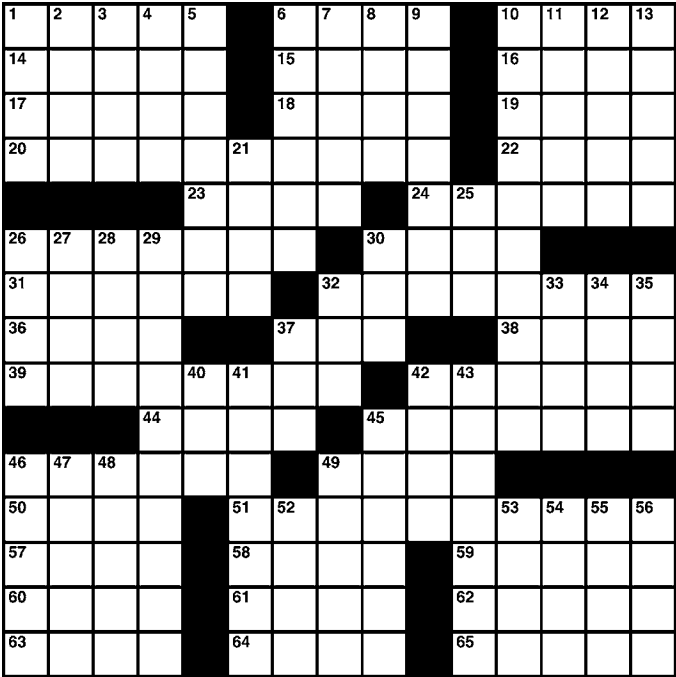
- 1 Attacks
- 6 Mandolin ridge
- 10 Resign
- 14 BP merger partner
- 15 Not often seen, to Caesar
- 16 Spreadsheet reversal command
- 17 Defeats soundly
- 18 Like many Keats poems
- 19 Chilled, as coffee
- 20 Dickens hero with "papers," as he is formally known
- 22 Clothed
- 23 The "A" in A.D.
- 24 More certain than not
- 26 Chewing gum substances
- 30 Office furnishing
- 31 Nut in a mixed nuts can
- 32 Airport building
- 36 Indian spiced tea
- 37 Manet's "The Luncheon on the Grass," e.g.
- 38 "Elder" or "Younger" Roman statesman
- 39 Mind readers
- 42 More sluggish

- 44 County on the Strait of Dover
- 45 Mussed up, as hair
- 46 Dover landmarks
- 49 Pretzel topping
- 50 Megastar
- 51 Unflattering Nixon sobriquet
- 57 Singer Tennille
- 58 Prefix with -drome
- 59 Spine-chilling
- 60 Milton's "Paradise Lost," for one
- 61 Overflow (with)
- 62 Hitting serves past
- 63 Potato holder
- 64 Old Norse poetic work
- 65 Pinkish wines

DOWN

- 1 Hurt
- 2 Latin love
- 3 Chowder or bisque
- 4 In "Macbeth," it opens with thunder and lightning
- 5 How many models are built
- 6 Displeased looks
- 7 Paul Harvey's medium

- 8 Guitarist Clapton
- 9 One bringing down the ball carrier
- 10 Surprise football plays
- 11 Title for Remus
- 12 Epitome
- 13 Hot alcoholic drink
- 21 Had the answer
- 25 Belief suffix
- 26 Initials on an old ruble
- 27 Derisive laughs
- 28 "My word"
- 29 Girls-night-out film
- 30 Tierra __ Fuego
- 32 "__ the season ..."
- 33 Carpentry fastener
- 34 Suit to __
- 35 Lady's man
- 37 Columbus Day mo.
- 40 Playboy Mansion resident, familiarly
- 41 Like colleges with the lowest tuition, for residents
- 42 1840s president
- 43 Annual period beyond the current fiscal one



- 45 Washington city
- 46 Credits as a reference
- 47 Parkinsonism treatment
- 48 Greek architectural style
- 49 Fathered
- 52 Clarinetist's need
- 53 1920s-'40s art style
- 54 Spring bloomer
- 55 French film
- 56 Frat party containers



[REDACTED]

Solution, page 11

	7	5	9		4			
9		3			6			
	4				8			3
		2					5	8
5	3						6	2
4	6					9		
6			4				7	
			5			6		9
			7		9	2	8	

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Solution, page 11

13+		42x		3-		4		3
4x			24+			1-		
	2÷				21x	30x		
1-		29+				2÷		
	24x				2		56x	
6		180x			56x			
2-	8x				8		2-	
	24+					5		

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–8. Follow the mathematical operations for each box.

Students inspired by talks

Bootcamp promotes independence and creativity

Startup Bootcamp, from Page 1

ful, and that’s a huge impact, from just one summer of organizing.”

Show up and say yes

The speakers shared their personal experiences in the startup industry, offering their takes on the issues faced by most high-tech startups. Topics discussed ranged from advice on how to pick the right team of co-founders, to raising venture capital, to negotiating during acquisitions, as well as general advice on how to achieve success.

Leah Culver, founder of Convore, a group based online chat company, described how she became involved in her first startup Pownce by simply saying “yes” to opportunities that came her way.

“I remember going to lunch with Kevin Rose [co-founder of Pownce and Digg] and he needed someone to build a site, and he said, ‘Leah, can you build a site?’ And I said, yes, yes, of course. I’d been programming for four years and had never built my own website before, but the great thing was, I didn’t have ten years of experience, but I knew I could do it with a lot of hard work.”

Her take-away? “Show up and say yes.”

MIT students who attended the event found the speakers to be inspiring.

Zier Liu ’13 said, “It was really inspiring to see that all the founders were so young and driven, and that they didn’t give up.” Liu, who is back at MIT after taking a year off to start her own US-China student exchange company, said she also enjoyed meeting the people around

her who were doing similar work in the education field.

Sarah R. Edris ’14 also enjoyed the presentations. “I really admired the independence of a lot of the speakers. I’m definitely more interested in startups after this event, and creating one doesn’t seem so far-fetched anymore.”

‘You don’t need anyone’s permission. You can go and start something, start learning — you can just do it. There’s really nothing stopping you.’

Other speakers highlighted the importance of creating companies centered around products that people want.

Co-founder of Dropbox Andrew W. Houston ’05 said that the Internet makes it much easier to scale a product, and that once you’re working on an important problem, “A lot of other things become easier, like attracting good people and good investors.”

“If there’s one thing you should do, it’s to make things that people want. And not just that, but make things that lots of people want,” he added.

Alex Polvi, founder of Cloudkick, a cloud server management service, also emphasized the importance of focusing on products that people want.

“The best negotiation position is one of truth. Build something of val-

ue that people want, and your position is irrefutable,” he said, based on his experience negotiating the acquisition of his own startup.

Find your own path

Anthony Volodkin, founder of Hype Machine, an MP3 blog aggregator, offered advice on the importance of finding one’s own path. He shared a story about his experiences negotiating a deal with venture capitalists who were nervous about copyright infringement on the music posted on the blogs aggregated by his company’s service.

“We came up with an alternate product to address their concerns, and we realized, it’s not what we wanted to build. It was kind of boring, and we really didn’t like it. And then, we asked, ‘Why don’t we just build what we actually wanted to build? And if it doesn’t work, we have no one else to blame,’” Volodkin said.

“Some people tell me that with things like Y Combinator, when you apply and they don’t accept you, the people never try to build the thing they applied with. And this is terrifying because I bet there are some really interesting ideas people submit that don’t fit the Y Combinator or Tech Stars way, or the VC way, and people just don’t work on them,”


“You don’t need anyone’s permission,” he added. “You can go and start something, start learning — you can just do it. There’s really nothing stopping you.”

His message resonated well with attendees. Volodkin ended his presentation with a well-received slide, “Y Combinator? TechStars? Just fucking make something.”

BOOKS

CHALLENGED or BANNED in 2010–2011

Sept. 24 - Oct. 1



BANNED BOOKS WEEK
Celebrate Your Freedom to Read www.ala.org/bbooks

Sponsored by:
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National Council of Teachers of English
PEN American Center

The Council for the Arts at MIT Grants Program

call for applications!

Deadline: Friday, September 30, 2011

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Information, guidelines, and application form:
<http://arts.mit.edu/about/council/camit-grants/>

We strongly suggest that applicants meet with Council staff before submitting a proposal

Please contact Susan Cohen at
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Adults & MIT Students

Friday, Sept. 30, 2011
Monday, Oct. 24, 2011

MIT Student Center, 3rd floor, 10 a.m. – 4 p.m.
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MIT Students Only


Thursday, Oct. 20, 2011

MIT Student Center, 3rd floor, PDR 1 & 2, noon – 4 p.m.

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Only over-the-counter inhaler off shelves in 2011

Primatene Mist inhaler to be phased out by December 31 due to ozone-destroying CFCs

By Letitia Stein
ST. PETERSBURG TIMES

If you are among the 2 million Americans depending on a drugstore inhaler to deal with asthma, it may be time to schedule a doctor's appointment. At the end of the year, your only non-prescription treatment option is coming off the shelves.

The issue isn't the medication, sold as Primatene Mist. For years, it has offered safe treatment for mild

asthma symptoms such as wheezing and shortness of breath. But the inhaler contains ozone-destroying chlorofluorocarbons, or CFCs, which long have been scheduled for phasing out.

After Dec. 31, you won't be able to buy Primatene Mist, the only over-the-counter inhaler approved by the U.S. Food and Drug Administration to treat asthma. Your alternatives are prescription drugs that are more expensive and require the time and cost

of a doctor's visit.

Primatene's manufacturer says it's working on a CFC-free substitute, but no one expects it to reach the market before the end-of-year deadline.

"Is this going to affect certain patients? Absolutely," said Dr. Richard Lockey, director of the division of allergy and immunology at the University of South Florida College of Medicine. "When you take [Primatene Mist] off the market and there's nothing to replace it you have an added

cost for patients."

Already, the FDA is warning that store supplies may run low before December. (If you choose to stock up, pay attention to expiration dates.)

Now this health issue has taken a political turn. After health officials urged consumers last week to talk to their doctors about a prescription for another medication, conservative bloggers started weighing in.

"It seems that the Obama admin-

istration would rather make people with asthma cough up money than let them make a surely inconsequential contribution to depleting the ozone layer," the Weekly Standard wrote.

In reality, the phaseout just happens to fall on President Barack Obama's watch. The FDA finalized the deadline in 2008, when Republican George W. Bush was president. The international treaty sealing the fate of CFCs dates back to 1987.

MIT-CHINA

INFORMATION SESSION



Thursday, September 29, 5-7pm
1 Amherst Street, E40-4th floor

Discover opportunities for internships and CETI teaching in China, Hong Kong, and Taiwan — ALL EXPENSES PAID! Learn about the application process and speak with returning interns.

Food will be served.

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→ MISTI MIT CHINA

New Novartis lab still in planning

Property to include Mass. Ave. retail space

Pharma, from Page 1

a petition to increase building height in sections further away from Mass. Ave., said Jeffrey Lockwood, global head of communications at Novartis.

There are no definite schedules or final designs, but Novartis expects to be finalizing plans with the Cambridge Planning Board by November or December. Earlier this year, the company announced it had hired Vietnam War Memorial architect Maya Lin to design part of the new complex.

According to Lockwood, Novartis hopes to be an important contributor to the Boston research community. "[Novartis] will be a real life sciences campus," Lockwood said.

Lockwood hopes to maintain the feel of an open campus, like the MIT campus. According to Lockwood, there will be pedestrian access through the Novartis campus during working hours.

Lockwood also emphasized the positive impact the project could have on the surrounding area, which houses many retailers. Novartis is planning for 8,000 square feet of retail property along Massachusetts Avenue. "We can really transform

this end of Massachusetts Avenue into a vibrant area, and be a connection between Kendall and Central Square," Lockwood said.

Pfizer is beginning construction on their laboratory just north of MIT's main campus. "We're proceeding quickly, and are exactly where we need to be," said Steven C. Marsh, managing director of real estate at MITIMCo. Marsh estimates the building to be completed in two years.

The project has not seen any delays or impediments from the city of Cambridge. The site was fully planned and permitted in 2009 under the city's Article 19 planning regulations.

Marsh is excited about the implications of research expansion in the area. "There isn't much economic development activity happening around the globe, so I'm glad some of it is landing here in Cambridge," he said.

The companies will be joining a host of other pharmaceutical groups in the growing research community around the Kendall and Central Square areas, including Biogen Idec, Millennium Takeda Oncology Co., and Infinity pharmaceuticals.



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UA budget summary, Spring 2008–Fall 2011

Expected Expenses	Fall 2011	Spring 2011	Fall 2010	Spring 2010	Fall 2009	Spring 2009	Fall 2008	Spring 2008
Operating	\$1,900.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,200.00	\$2,130.00	\$15,000.00	\$4,130.00
Exec	\$10,520.00	\$10,800.00	\$11,040.00	\$7,140.00	\$6,775.00	\$1,900.00	\$2,400.00	\$2,500.00
Chief of Staff	\$2,786.00	\$650.00	\$2,480.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
VP for Resource Development	\$1,813.00	\$1,500.00	\$1,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Senate	\$4,960.00	\$2,840.00	\$8,710.00	\$2,910.00	\$6,622.19	\$2,550.00	\$2,550.00	\$1,900.00
Senate Constituency Fund	\$1,500.00	\$2,250.00	\$4,500.00	\$750.00	\$750.00	\$750.00	\$750.00	\$750.00
ASA	\$4,585.00	\$4,600.00	\$4,600.00	\$4,600.00	\$4,600.00	\$3,800.00	\$3,800.00	\$4,250.00
Committee on Athletics	\$4,745.00	\$50.00	\$100.00	\$2,250.00	\$3,518.20	\$4,200.00	\$3,941.00	\$950.00
Committee on Communications	\$6,150.00	\$6,050.00	\$5,150.00	\$1,710.00	\$3,550.00	\$3,500.00	\$2,475.00	\$3,300.00
Committee on Dining	\$350.00	\$0.00	\$250.00	\$700.00	\$650.00	\$0.00	\$300.00	\$0.00
Committee on History	\$0.00	\$50.00	\$600.00	\$250.00	\$650.00	\$0.00	\$0.00	\$0.00
Committee on Housing	\$0.00	\$250.00	\$0.00	\$0.00	\$0.00	\$100.00	\$100.00	\$0.00
Committee on Nominations	\$90.00	\$180.00	\$70.00	\$720.00	\$0.00	\$2,000.00	\$0.00	\$3,008.00
Committee on Space Planning	\$100.00	\$140.00	\$625.00	\$0.00	\$545.00	\$0.00	\$100.00	\$0.00
Committee on Student Life	\$1,300.00	\$9,548.00	\$100.00	\$2,555.00	\$3,050.00	\$8,590.00	\$9,032.22	\$2,250.00
Committee on Sustainability	\$800.00	\$150.00	\$800.00	\$750.00	\$950.00	\$3,800.00	\$1,200.00	\$0.00
Election Commission	\$937.50	\$787.50	\$937.50	\$625.00	\$600.00	\$460.00	\$275.00	\$450.00
Events Committee	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Finance Board	\$120.00	\$350.00	\$160.00	\$160.00	\$0.00	\$450.00	\$340.00	\$2,080.00
SCEP	\$1,200.00	\$480.00	\$500.00	\$1,160.00	\$965.00	\$1,050.00	\$1,050.00	\$900.00
IT (CIT)	\$0.00	\$0.00	\$0.00	\$0.00	\$1,137.50	\$0.00	\$0.00	\$0.00
Judicial Board	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Alumni Relations	\$1,000.00	\$5,150.00	\$1,000.00	\$1,722.00	\$1,000.00	\$0.00	\$0.00	\$0.00
Committee on Technology (previously Printing)	\$210.00	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Special Projects - no longer exists	\$0.00	\$0.00	\$0.00	\$2,400.00	\$2,900.00	\$0.00	\$0.00	\$0.00
Deprecated Committees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200.00	\$0.00
UA Core	\$23,479.00	\$20,240.00	\$30,430.00	\$13,000.00	\$16,347.19	\$7,330.00	\$20,700.00	\$9,280.00
Committees & Auxiliaries	\$21,587.50	\$27,835.50	\$14,892.50	\$19,602.00	\$24,115.70	\$27,950.00	\$22,813.22	\$17,188.00
Budgeted Expenses	\$45,066.50	\$48,075.50	\$45,322.50	\$32,602.00	\$40,462.89	\$35,280.00	\$43,513.22	\$26,468.00

Expected Income	Fall 2011	Spring 2011	Fall 2010	Spring 2010	Fall 2009	Spring 2009	Fall 2008	Spring 2008
Semesterly Allowance	\$143,230.00	\$143,230.00	\$143,230.00	\$143,230.00	\$143,230.00	\$133,230.00	\$133,230.00	\$133,230.00
Kaplan	\$4,000.00	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$0.00	\$4,000.00	\$0.00
Princeton Review	\$4,150.00	\$0.00	\$5,000.00	\$1,000.00	\$7,400.00	\$0.00	\$6,000.00	\$0.00
Withdrawal from Reserve	\$30,000.00	\$40,000.00	\$30,000.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00	\$0.00
Total	\$181,380.00	\$183,230.00	\$182,230.00	\$144,230.00	\$154,630.00	\$143,230.00	\$153,230.00	\$133,230.00

Summary of Income and Expenses	Fall 2011	Spring 2011	Fall 2010	Spring 2010	Fall 2009	Spring 2009	Fall 2008	Spring 2008
Total Income	\$181,380.00	\$183,230.00	\$182,230.00	\$144,230.00	\$154,630.00	\$143,230.00	\$153,230.00	\$133,230.00
Budgeted Expenses	\$45,066.50	\$48,075.50	\$45,322.50	\$32,602.00	\$40,462.89	\$35,280.00	\$43,513.22	\$26,468.00
Net of Income	\$136,313.50	\$135,154.50	\$136,907.50	\$111,628.00	\$114,167.11	\$107,950.00	\$109,716.78	\$106,762.00
Fresh Fund	\$3,000.00	\$1,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$10,000.00
Senate Discretionary	\$5,000.00	\$7,500.00	\$10,000.00	\$8,000.00	\$8,000.00	\$10,000.00	\$10,000.00	\$3,000.00
UA Contribution to Student-Faculty Dinners	\$2,500.00	\$2,500.00	\$2,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Remainder for Groups	\$125,813.50	\$123,654.50	\$121,407.50	\$100,628.00	\$103,167.11	\$94,950.00	\$96,716.78	\$93,762.00
Overallocation	40%	40%	30%	10%	10%	15%	15%	15%
Semesterly Allocation to Groups	\$176,138.90	\$173,116.30	\$157,829.75	\$115,090.80	\$113,483.82	\$109,192.50	\$111,224.30	\$107,826.30
		\$61,582.30						
Additional Funding Elsewhere in Budget	Fall 2011	Spring 2011	Fall 2010	Spring 2010	Fall 2009	Spring 2009	Fall 2008	Spring 2008
MTVU - Wellness Week	\$1,000.00	\$1,000.00	\$1,000.00	\$2,000.00	\$0.00	\$0.00	\$0.00	\$2,000.00
Deans/SLF - Student Faculty Dinners	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$8,000.00	\$0.00	\$10,000.00



The 2011 Ig Nobel Informal Lectures

Saturday, Oct. 1st
1:00 pm, 26-100

A half-afternoon of informative, high-spirited, and inevitably humorous public lectures, in which the 2011 Ig Nobel Prize winners will attempt to explain what they did, and why they did it. Special appearances by previous winners too! Please join us.

For more information on the 2011 Ig Nobel Prize Ceremony, visit: www.improbable.com

and for the Ig Informal Lectures: web.mit.edu/bookstore/www

All Ig Nobel Prize activities are organized by the *Annals of Improbable Research*. This free event is organized in cooperation with the MIT Press Bookstore.



Solution to Crossword

from page 7

H	A	S	A	T		F	R	E	T			Q	U	I	T
A	M	O	C	O		R	A	R	A			U	N	D	O
R	O	U	T	S		O	D	I	C			I	C	E	D
M	R	P	I	C	K	W	I	C	K			C	L	A	D
					A	N	N	O		L	I	K	E	L	Y
C	H	I	C	L	E	S		D	E	S	K				
C	A	S	H	E	W		T	E	R	M	I	N	A	L	
C	H	A	I			O	I	L			C	A	T	O	
P	S	Y	C	H	I	C	S		P	O	K	I	E	R	
					K	E	N	T		T	O	U	S	L	E
C	L	I	F	F	S		S	A	L	T					
I	D	O	L			T	R	I	C	K	Y	D	I	C	K
T	O	N	I			A	E	R	O		E	E	R	I	E
E	P	I	C			T	E	E	M		A	C	I	N	G
S	A	C	K			E	D	D	A		R	O	S	E	S

Solution to Sudoku														
<i>from page 8</i>														
2	6	7	1	8	5	4	3							
1	5	6	8	7	4	3	2							
4	8	1	3	2	7	6	5							
8	4	5	7	6	3	2	1							
7	3	4	6	5	2	1	8							
6	2	3	5	4	1	8	7							
5	1	2	4	3	8	7	6							
3	7	8	2	1	6	5	4							

Solution to Techdoku														
<i>from page 8</i>														
8	7	5		9	3	4		1	2	6				
9	1	3		2	7	6		8	4	5				
2	4	6		1	5	8		7	9	3				
1	9	2		6	4	7		3	5	8				
5	3	7		8	9	1		4	6	2				
4	6	8		3	2	5		9	1	7				
6	2	9		4	8	3		5	7	1				
7	8	4		5	1	2		6	3	9				
3	5	1		7	6	9		2	8	4				

The Engineers started the game off strong, holding the Colonels first two drives and taking over on their own 37-yard line. After a 63-yard drive, the Engineers scored with 4:32 left in the first quarter on a 1-yard run by Justin R. Wallace '15. The ensuing extra-point kick went far left, showing early signs of special team woes. The point after was missed due to a poor snap — a recurring theme that day for the Engineers. MIT almost had major turnovers on three punts due to high snaps that soared over punter John C. Wenzel '14's head.

Curry College did a good job passing for short yardage by quickly sending the ball to the outside, taking advantage of MIT's issues with keeping close man coverage. Whenever the Colonels tried to pass over the middle, the Engineers' linebackers were able to intercept the ball.

The Engineers were unable to capitalize on any of the four Curry turnovers, having to punt after ev-

To begin the second half, Curry

There are a number of areas that MIT needs to improve in order to prevent a similar 1-8 fate as last year. The Engineers had unimaginative play calling, running every play with a no-huddle shotgun position. Every play started with either one running back or a no-back formation. Almost every play in a no-back formation was a quarterback keeper, while the 1-back formation usually indicated a running play to Wallace. By the end of the game, even the fans were yelling out the type of play

MIT also needs to find a consistent passing game. Without a threat of passing, opponents can better protect against the run. The Engineers need to learn how to capitalize on mistakes. Four interceptions and no points on the subsequent drives was the

difference-maker in this game. Poor tackling will need to be improved upon in order to prevent strong rushing and to win another game this season. MIT plays next at UMass Dartmouth on Oct. 1, with their next home game Oct. 15 against Western New England University.

Sailing Midweek Tech Invite No. 2	4 p.m., Charles River
Men's Tennis vs. Endicott College	5 p.m., duPont Tennis Courts

The Engineers fell 7-2 to Tufts, the fifth-ranked Division III team in the nation. Michelle M. Dutt '15 and Vynnie J. Kong '15, playing second and fifth singles respectively, earned the only points for MIT.

—David Zhu, Sports Editor

web.mit.edu/invent/student